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RAW SEQUENCE LISTING

DATE: 07/13/2001

PATENT APPLICATION: US/09/893,600

TIME: 13:58:02

Input Set : A:\108172-00057.txt

Output Set: N:\CRF3\07132001\I893600.raw

ENTERED

3 <110> APPLICANT: Hansen, J. Norman
 5 <120> TITLE OF INVENTION: Construction of a Strain of Bacillus subtilis 168 that
 Displays the
 6 Sublancin Lantibiotic on the Surface of the Cell
 8 <130> FILE REFERENCE: 108172-00057
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/893,600
 C--> 10 <141> CURRENT FILING DATE: 2001-06-29
 10 <150> PRIOR APPLICATION NUMBER: 60/215,449
 11 <151> PRIOR FILING DATE: 2000-06-29
 13 <160> NUMBER OF SEQ ID NOS: 3
 15 <170> SOFTWARE: PatentIn version 3.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 2517
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Artificial Sequence
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: The EcoRI-HindIII insert of the pLPVc integrative plasmid.
 25 <400> SEQUENCE: 1
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 30 catcgcttaa agtttttttg ttttaaaaac ttaaaaaaca tggtaaaatt atataaaaac 180
 32 ataagaaaga gtgattatat ggaatatgta gttatgataa tcattttatt agcacttttc 240
 34 tttattttta ctgttttcct aaatacacgt tatagttttg atgaaaaatg cttagtctta 300
 36 aaatttggtt tatctaaaac agaaattcca attaatcaaa tagtttagtat taaagagtca 360
 38 gacaagtatg gagttgcaga taatatcgat tataaaattg gtatgccata tgctcaacca 420
 40 gatagaattg ttattgaaac tacaataaag cgttttctag tttttttaa tggagctcaa 480
 42 caatttattc aaaagtataa aagggttagt gtttgaacat aaaaaagtac cttcttacaa 540
 44 tagaaggtag ttttttgtat ctataattat taaaaattta cctaaatttt tatcattatt 600
 46 aattcaaaat aaatccataa tagtcaattt tatttagtgt attacaacca attcggatcc 660
 48 aagcaccat tagttcaaca aacgaaaatt ggataaagtg ggatattttt aaaatatata 720
 50 tttatgttac agtaaatattg acttttaaaa aaggattgat tctaatagaag aaagcagaca 780
 52 agtaagcctc ctaaattcac tttagataaaa aatttaggag gcatatcaaa tgaactttta 840
 54 taaaattgat ttagacaatt ggaagagaaa agagatattt aatcattatt tgaaccaaca 900
 56 aacgactttt agtataacca cagaaattga tattagtgtt ttataccgaa acataaaaaca 960
 58 agaaggatat aaattttacc ctgcatttat tttcttagtg acaagggtga taaactcaaa 1020
 60 tacagctttt agaactggtt acaatagcga cggagagtta ggttattggg ataagttaga 1080
 62 gccactttat acaatttttg atggtgtatc taaaacattc tctggtattt ggactcctgt 1140
 64 aaagaatgac ttcaaagagt tttatgattt atacctttct gatgtagaga aatataatgg 1200
 66 ttcggggaaa ttgtttccca aaacacctat acctgaaaat gctttttctc tttctattat 1260
 68 tccatggact tcatttactg ggtttaactt aaatatcaat aataatagta attaccttct 1320
 70 acccattatt acagcaggaa aattcattaa taaaggtaat tcaatatatt taccgctatc 1380
 72 ttacaggtta catcattctg tttgtgatgg ttatcatgca ggattgttta tgaactctat 1440
 74 tcaggaattg tcagataggc ctaatgactg gcttttataa tatgagataa tgccgactgt 1500
 76 actttttaca gtcggttttc taatgtcact aacctgcccc gttagttgaa gaagggatc 1560
 78 gtgtattaca accaattctg tttattgata ggtaataaag ttttttttct atgatttatg 1620
 80 aacaagtttc cttataattt tcaaaaaaaa ataaaaaata tgggtgaatt tagatttatc 1680
 82 ttcctttata ttaaaaaatg taatccgatg tgcaaacaaa tggggaggtt ttacaaatgg 1740
 84 aaaagctatt taaagaagtt aaactcgagg aactcgaaaa ccaaaaagggt agtggattag 1800

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86 gaaaagctca gtgtgctgcg ttgtggctac aatgtgctag tggcggtaca attggttgtg 1860
88 gtggcggagc tggtgcttgt caaaactatc gtcaattctg cagataaaac atttgtagag 1920
90 ggaatatttt aaatattccc tcatatttaa agcggggatt gaaattgaat aagaaaaaga 1980
92 aatatgttca tactaaacag tttaatagtc atgattgtgg actagcttgt atctcgtcaa 2040
94 ttttaaagtt tcataacctt aactatggaa ttgatttctt actagaccta attggggata 2100
96 aggaaggcta tagtttaaga gacttaattg ttatttttaa gaagatgggg ataaaaacta 2160
98 ggccacttga attgcaagaa aataagacat tcgaagccct aaaacaaata aagctccctt 2220
100 gtatagcttt gttagaaggg gaggaatatg gacattacat aacaatatac gaaattagaa 2280
102 ataactattt acttgttagt gatcctgata aagacaaaat aactaaaata aaaaaagagg 2340
104 attttgaaag taaattcaca aactttatat tagaaattga caaagagtca attcctgaaa 2400
106 aagaaaaaga tcaaaaaaaaa cattcttact tttttaagga catacttttt agaaataaat 2460
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112 <210> SEQ ID NO: 2

113 <211> LENGTH: 300

114 <212> TYPE: DNA

115 <213> ORGANISM: Artificial Sequence

117 <220> FEATURE:

118 <223> OTHER INFORMATION: The sequence of sunA-PG20-SL gene and corresponding peptide sequence.

120 <220> FEATURE:

121 <221> NAME/KEY: CDS

122 <222> LOCATION: (1)..(300)

123 <223> OTHER INFORMATION:

125 <400> SEQUENCE: 2

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128 1 5 10 15
130 aaa ggt agt gga tta gga aaa gct cag tgt gct gcg ttg tgg cta caa 96
131 Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln
132 20 25 30
134 tgt gct agt ggc ggt aca att ggt tgt ggt ggc ggc gcc gtt gct tgt 144
135 Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Gly Ala Val Ala Cys
136 35 40 45
138 caa aac tat cgt caa ttc tgt aga ggt ggt ggt ggg gga ggc ggg gga 192
139 Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly Gly
140 50 55 60
142 ggg ggt ggt ggt gga gga ggt ggt ggt ggt ggt ggt atg tca aag ttc 240
143 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe
144 65 70 75 80
146 gat gat ttc gat cta gat gtt gtg aaa gtc tct aaa caa gac tca aaa 288
147 Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys
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150 atc act ccg caa 300
151 Ile Thr Pro Gln
152 100

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155 <210> SEQ ID NO: 3

156 <211> LENGTH: 100

157 <212> TYPE: PRT

158 <213> ORGANISM: Artificial Sequence

160 <220> FEATURE:

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7/13/01

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date